

**ABSTRACT OF THE DISCLOSURE:**

A packet transmission method in a telecommunication network is provided. According to one embodiment, the method includes the steps of transmitting, estimating and controlling. The transmitting step transmits, in the network, packets of different priority on at least some connections. The estimating step estimates a value for the quality of service required for sending high priority packets with a given successful decoding probability. The controlling step controls the interference in the network such that the quality of service for each connection has at least the estimated value.